## A DIVISION OF METROLOGY

Novel Exhibit Now Being Prepared by the National Museum.

The History of Counting, Recording Weighing, and Measuring to Be Shown-Methods in Use in Other Days-An Interesting Collection.

Prof. Otis T. Mason, head curator of the National Museum, is enthusiastic regarding the future of the new division of metrology, which, he says, is destined to have one of the most interest ing and instructive exhibits in the museum. It will be the purpose of the exhibit to Plustrate all the methods for counting, recording, weighing, and measuring employed by mankind from the earliest ages up to the present time The immense scope of such an exhibit illustrating, as it would, the progress of humanity in the arts and sciences precludes the probability of its being perfected within a considerable period, unless, indeed, Congress should make an adequate appropriation; otherwise the usual method of the aggregation of collections at the museum, that of rely ing upon private donations, will have

to be adhered to. First in order in the collection will be methods of numbering. It may reasonably be conjectured that the first means employed by man to that end were afforded him by nature in the fingers of his hands. With these, however, he could only count ten; but it was then a simple expedient, when he wished to go further, to pick up n lot of sticks and stones, and use these to indicate the number he intended to convey. Years ago, when some Indians in this country were required to make their own cen sus returns, the employes of the Census Bureau were somewhat surprised to receive three huge bundles of sticks, one to indicate the number of men, the other of women, and the other of juveniles in the tribes. Fancy the amoun of development represented by the difference between this primitive expedient and the Hollerith counting machines used in our census! Here is a machine that even human stupidity or a great many of those who operate it. The perfection to which these counting machines have been brought is truly astonishing, and they are used in all banks and establishments where the greatest celerity and exactness are re-

A most interesting feature of the collection at present is some specimens of the exchequer tally, in use in England till 1826. These are nothing more than notched sticks, concerning which

novelists wrote as follows: "Ages ago, a savage mode of keeping accounts on notched sticks was introduced into the Court of Exchequer, and the accounts were kept much as Hobinerable revolutions of time, the celebrated Cocker was born and died. Walkinghame, of the Tuter's Assistant," well versed in figured, was also born and died-a multitude of accountants, bookkeepers, and actuaries were born and died. Still official routine inclined to these notched sticks, as if they were the pillars of the constitution, and still the exchequer accounts continued to be kept on certain splints of elm-wood, called 'tallies.' In the reign of George. III an enquiry was made by some revolutionary spirit whether-pens, ink, and paper, and slates and pencils being in existence-this obstinute adherence to an obsolete custom ought to be continued, and whether a change ought not to be effected. All the red tape in the country grew redder at the bare mention of this bold and original concep-tion, and it took till 1826 to get these that there was a considerable accumu- contended, would explain important lation of them, and the question then arose, what was to be done with such worn-out, worm-eaten, rotter old bits of wood? I daresay there was a vast amount of minuting, memoranduming, and despatch boxing on this mighty subject. The sticks were housed at Westminster, and it would naturally occur to any intelligent person that nothing could be easier than to allow them to be carried away for firewood by the miserable people who live in that neighborhood. However, they never had been useful, and official routine required that they never should be, and so the order went forth that they were to be privately and confidentially burned. It came to pass that they were to be burned in a stove in the House of those preposterous sticks, set fire to the of humanity in things." Lords. The stove, overgorged with paneling, the paneling set fire to the House of Lords, the House of Lords set fire to the House of Commons; the two houses were reduced to ashes; architects were called in to build others; we are now in the second million of the cost thereof; the national plg is not nearly over the stile yet, and the little the long history of England its value car old woman Britannia hasn't got home not be overestimated as a work of art, tonight. Now, I think we may reasonably remark, in conclusion, that all obstinate adherence to rubbish which the time has long outlived is certain to have in the soul of it more or less that is pernicious and destructive, and that will some day set fire to something or other, which, if given boldly to the winds, would have been harmless, but which, obstinately retained, is ruinous."

Half-intelligible legends, written upon the sticks, indicate the nature of the accounts. The one stick represents the credit side of the transaction, the other the debit, and the tallying of the notches indicates that both are genuine,

Among the early methods for numbering illustrated in the collection will be the abacus of the ancients. This was the most improved means among the Greeks and Romans for arithmetical calculations, and closely resembled the Chinese "swan pan" of the present day, It contained seven long and seven shorter rods or bars, the former hav-

recording will come that of measuring. In order to conceive the scope of this phase of the exhibit alone, one has only to reflect that man's utilization of the forces of nature, upon which is primarily based the industrial pre-emi nence of the present age, is dependent directly upon his capabilities for meas uring those forces. But this is the later development of the subject. Measurement in one form or another, must have been employed among men from the very commencement of society, as, without it, no comparison of values could have been effected, and bence there could have existed no commercial intercourse or useful arts. Measure ment was contemporaneous with order

among men; that is, it was the first

step in human progress. It is needless

to point out its relation to the sciences

and useful arts, as it is, apparently, at, the foundation of all. The art of measuring, like that of numbering, began, it may be conceived, by the use, in that connection, of the human hand and afterwards, perhaps, of the human foot. The words "foot" and "hand" are still employed to designate units of linear measurement, which approximate the average length of se members of the body. In early ages, it was the hand and foot of the king that were selected as the standards, and, as it would have been palpa bly inconvenient, not to say undignified, for a potentate to go about in the capacity of a measure, sticks were gauged the required length or lengths,

and hence the origin of our modern foot

rule. From the methods of measurement employed in primitive times up to the art as practiced today-this is a long way indeed! In connection with the latter phase of the subject, there will be own the methods and apparatus for measuring light and heat; even the light and heat of the most distant star, means of the bolometer; the methods for the measurement of the impalpable and the invisible; the micrometer, that measures ,60005 of an inch, and the neans for determining the sizes and distances of the sun, moon, planets, and stars; the means of measuring the globe, "and all that it inhabits". determining the bulk of liquids, solids, and gases. Even flying Time himself has actually more moral character than has long had to submit to accurate clock, which measures the day, and the calendar, which measures the year. Today, the chief aim of the science of

physics itself is measurement, and the most important measurement is that of heat. In order to recognize this, it is only necessary to reflect that all modern mechanical operations depend upon the employment of heat. In the words of a recent writer, heat generates steam, is changed into electricity, the most famous of modern English drives steamships, reduces ores, warms buildings. Is it not, then, of the greatest importance to measure heat accurately? For, unless this is done, it cannot be properly controlled. It is found essential, also, to measure the effect of heat on gases, liquids, and solids, to find desert island. In the course of consid- out how much it expands them, how melts, or gasines them. Knowledge such as this is necessary to all manner of manufacturing, smelting, power-producing operations. In regard to the measurement of temperature, it may be noted that the German Government recently expended much money and employed the protracted labor of distinguished scientists, in carrying certain established temperature calculations from the fifth to the seventh figure be-

yand the decimal. All measurement is three kinds, linear, square, or superficial, and cu- known as the water dog. As is imbic; that is, it embraces the three bic; that is, it embraces the three plied by its name, a lap-dog is a dimin-known geometrical dimensions. This utive pet that can be carried about out consideration opens the interesting of doors, or nursed in a lady's lap at speculation, now engaging the attention of scientific men, as to the existence of points in the mystery of the universe.

Last in the collection will come methods for weighing. Weighing machines and devices of all kinds, from the most primitive to the most complicated, will be shown; some of the latter capable of weighing hundreds of tons, and others so delicate as to determine the force of gravity upon a human hair, or the weight of a lead-pencil line upon a sheet of paper.

Nothing more is attempted, in this brief sketch, than to hint at a very few of the many points of interest which the collection will embrace. Suffice it to say, in conclusion, that, when it is even approximately complete, few ethnologic exhibits will better answer what Prof. Mason describes as the purpose of all such exhibits, "the history

### THE CORONATION CHAIR.

The Most Historic Bit of Furniture

that exists; as a venerable witness in mal so denominated. It has been supmade by order of King Edward I to en close the stone from Scone, its importance is equally great. What was the fate that sefell this chair under the sympathetic charge of the officials?

charge of the officials?

Mature reflection convinced these gentlemen that it did not look sufficiently "smart," and so doubt had it been placed, grey with age and history, on the "bath red" spotted carpet, surrounded as it was with the gimerack brass railings from St. James' Palace, it would have stood a silent and yet cloquent witness against modern official taste.

The chair was placed in the hands of the The chair was placed in the mands of the phobisterers. It was smeared with brown tain and varnish and otherwise tinkered, bragged along by sundry workmen over the unprotected mesale pavement of About ware, the chair was brought sround from the recerses where it had been "doctored." The flat surfaces of the chair, back and arms still retain in places the inclent gesso ornamentation. Into these ack and arms still retain in places the scient gesso ornamentation. Into these arfaces Mr. Wright, the cierk of works the Albey, found men driving "tacks" is hold some of their upholsteries, and ery properly protested.

A question was asked in the House on the treatment to which the coronation

the treatment to which the coronation chair was being subjected. We quote from the "Athenaeum" of the 9th of July,

ing four perforated beads running on them, and the latter one. One of the longer bars was for units, another for tens, and so on up to millions. The beads on the shorter bars denoted fives—five suits, five tens, etc. One long rod, and its corresponding short rod, were for marking ounces; and the short quarter rods for fractions of an ounce.

The swan-pan, to be seen in any Chinese laundry, closely resembles the Roman abacus in its construction and use. Computations are made with it by means of balls of bone or ivory, running on slender bamboo rods, similar to the simpler board, fitted up with beads strung on wires, which is sometimes employed in elementary schools in teaching the rudiments of arithmetic.

Next to the subject of counting and On Tuesday, Mr. Plunket, being fur-

## THE NAMES OF ANIMALS.

Their Unique Origins Traced From the Ancients.

How the Various Canine Breeds Reecived Cognomens-Crude Titles Givento Domestic Quadrupeds by Man-Designating the Wild Beasts.

The origin of the names now given to our pet and domestic animals are interesting to trace. To commence with the canine species, it may be presumed that "dog" is a contraction of the Icelandic "doggr." The Greek name for an animal of the canine species was "knou," which was evolved into the Latin, "canis," the Gothic "hunds," the Anglo-Saxon and modern German "hund," and eventually into "hound," the modern English designation for a sporting dog. A staghound is a houne especially serviceable in stag hunting; the bloodhound possesses the instinct of tracking blood by smell; while the greyhound is not called so because of its color, as is commonly believed, but because this species of dog was originally brought from Graikor, the native name of Greece. A valuable species of bound closely allied to the bloodhound is the taibot, so-called because it is borne on the arms of the Earl of Shrewsbury, whose family name is Tal-

bot. The bulldog was formerly employed for baiting bulls. A pointer is a sporting dog trained to point out the presence of game with his nose, and a setter one that crouches over the place where the game lies hidden. The species of burrowing dog is styled a terrier, in accordance with the Latin "terra," the earth. A harrier is a dog especially valuable for hunting hares; while the term "beagle," applied to a breed of harrier pre-eminently useful in rabbit hunting, came originally from the Gael-He, "beng," signifying little, because it is really a species of hound.

The now popular fox terrier was once regarded as a valuable addition to a pack of foxhounds. The St. Bernard dogs werebred at the famous monastery of St. Bernard in the Alps. The Esquimaux dog is found in Greenland and other Arctic climes; whereas the Pomeranian variety of this dog is bred in Pomerania, Prussia, A skye terrier is one of a breed of terrier peculiar to the Isle of Skye, in the Hebrides. The word "mastiff," comes from the Italian "mastino," descriptive of a watchdog. The Newfoundland dog is a native of Newfoundland, and is also found in Labrader. A Dalmatian is so designated from the country where it was first bred; it is more generally known as a coach dog, and a few years ago, was quite fashionable, nearly every carriage having one of the spotted canines trot ting after it.

The spaniel is a Spanish dog, of which the best breed originally came from the Isle of Haiti, in the West Indies, formerly known as Hispaniola. and at what degree it consumes, or The small species of spaniel, of which Charles I was so fond, has ever since borne the name of the King Charles spaniel. The famous Blenheim or Mariborough spaniels are so called from Blenheim Palace Oxfordshire the seat of the Duke of Marlborough, where the breed has been preserved in all its purity since the commencement of the seventeenth century. It is very rare in this country.

The term poodle comes from the German "pudel," a puddle, or pool, the dog so named being closely allied to what is

a fourth and other dimensions, at pres- Greek "hippos," and, primarily from tion, and it took till 1826 to get these ent inconceivable by the human intel-sticks abolished. In 1834 it was found ent inconceivable by the human intel-lect, but the knowledge of which, it is traces its name through the French against it." "chat" and Latin "gata," from the Arabic "gitt." When people speak of the cat familiarly as "puss," they little think, perhaps, that they are giving this animal the same name as did the ancient Egyptians, because like the moon, she was more active at night, and her eyes changed similarly to the changes of the moon. As time wore on, the word "pasht," the moon, also signifying a cat, became shortened into "pus," after which the corruption into

> In regard to the names of wild animals it may be said that the majority of these can be traced to the ancien languages, principally Greek and Latin The name of "elephant" was evidently received through the Greek "elephar tos," and Latin "elephantus," from th Semitic "aleph-hindi," an Indian bull Hippopotamus is the Greek for river horse, "hippos" being "horse" in that language, and "potamus," river. "Rhioceros" is a Latin term derived from the two Greek words, "rinos." the nose The coronation chair is one of the most and "keran," a horn, referring to the interesting pieces of historic furniture protuberance on the mouth of the ani posed by some that theo ne-horned animal described in the Scriptures as the unicorn was a rhinoceros, if not a species of wild bull. The term "panther" remains the same spelling as in the original Greek; lion comes from the Latin "leon," and tiger from the Latin and Greek "tigris," while "leopard" is merely a contraction of the Latin leopa "us," a spotted lion.

Several animals trace their name from the East. Chief among these may be mentioned the camel, called in Arabic "gamel," and Anglicised through the Greek "kamelos," and Latin, "camelos," the giraffe, from the Arable "zlrafoh," and Egyptian "Soraphe," signifying a long neck. Dromedary, how ever, is a modification of the French word, "dromedaire," derived from the

Greek word, "dromas," running. The lemur derives its name from the Latin designation for "ghost," 'spook," from the fact that, like those gentry unencumbered with ficaby attributes, they select the night for prom enading.

"Wolf" is a modern spelling of the Angle-Saxon "wulf," derived from the Gothic "vulfs," and the Latin "vulpes," fox. The wolverine, or, as it is sometimes called, the "prairie-wolf," originally so called because its instincts were supposed to be vulpine. The jackal, a Persian and Indian animal allied to the fox, is styled in the former tongue "shagal," and in the latter "scrigala," both names signifying a fox. Fox is an Anglo-Saxon term, derived from the Icelandic "fax." a hair-more "Bear" is an altered spelling of the Anglo-Saxon, "bera;" and "beaver," of th Anglo-Saxon "beofer," derived from the Latin, "fiber." The aye-aye, a native of Madagascar, is so called from its pe cultar cry; the opossum was described as the opassum in the native language | Londo

#### of the Indians of Virginia. "Paca," is a Portuguese and Brizillan name, "al-paca" and "llama" are Peruvian, while jaguar," expresses the English for the Brazilian term "Jagaora." The word 'badger' owes its exference to the Latin name of the animal, "bladarius," con-

forming to "blada," corn, because he was in the habit of eating the corn in the fields. "Ox" is an Icelandic term rendered "ku," and Anglo Saxon, "cu;"

into the Anglo-Saxon "oxa;" cow ex presses the modern form of the Icelan comes from the Anglo-Saxon verb "bellan," to roar, to bellow; "blson" is the Greek designation of the animal indieated, while "buffalo" traces its origin to the Greek "boubales," descriptive of an African stag. Pig is a contraction of the Swedish "piga;" and "hog," a modification of the Welsh, "hweh," swine.

### "A VEOMAN'S LETTERS."

Lively Descriptions of the Boer War

by a British Soldier. In "A Yeoman's Letters" Mr. P. T. Ross, late a corporal in the Sixty-ninth Sussex Company of Yeomanry, has written the liveliest book about the war which has yet appeared. Whatever which has yet appeared, amusement can be extracted from a trugtheme will be found in his vivacious "letters." He seems to be one of those high-spirited and versatile young man who notice the humorous side of everything and can add to the jollity of a con pany by a story, a song, an "impromptu" poem, or a penciled caricature. His book is illustrated by himself. We cannot say that his drawings have any artistic mer-it, but they make one laugh and thus serve their purpose. They do something more than this, for they bring home the realities and miseries of life in the camp and on the march even more vividly than the letterpress. The author enlisted in the "dark days" of 1899, and his first ex-perience of South Africa was at Maitland

"This place is a perfect New Jerusa lem as regards Sheenies, every civilian about the camp appearing to be a German Jew refugee. They have stails and sell soap, buns, braces, belts, etc. Every now and again a big Semitic proboscis appears at our tent door, and the question, Does anypody vant to puy a vatch?' is propounded."

the end of May the company had reached the Vanl River-a unit in the swarm of horse, foot, and artillery mov-ing toward Johannesburg. After the occupation of Pretoria, the men were marched up and down the country, covering enormous distances and sharing in many minor engagements. Here is a lit-tle picture of General Mahon, and a characteristic story of him:

"The night we stopped outside Pretoria, before coming this way-our curiosity was roused by suddenly hearing three hearty British cheers from some lines not far from ours. On making an enquiry as to the cause of the outburst of feeling, we were informed that the battalion had just received news that their adjutant, who was absent on leave, had been made a prisoner by the .. ours. Of course, some officers, especially the regular ones who have seen previous service, are decidedly opular, our present genral, 'Mickey' Ma-on, being an instance. There is no gold lace or cocked hat about him. He is in attire probably the strangest figure in the campaign. Picture to yourself a quare-built man of middle age, wearing an ordinary brown cap (not a service one), a khaki coat, with an odd sleeve, breeches, and box-cloth gaiters, carrying a hooked cherrywood stick, and smoking a brier, and you have General Mahon.
"And now listen to this little story

about him. A few days ago a Tommy was chasing a chicken near a farm on the line of march. Suddenly the cackling, fluttering, feathered one dashed in the direction of a plainly dressed stranger. 'Go it, mate; you've got un!' yelled the excited Tommy. Then, to his horrer, he recog-nized the general, and, confused, tried to a nicety by the shades of political 'Not at all,' said the chief, and helped him to kill the bird. Then, telling him if he liked he could take it dett," he says in his autobiographical to his colonel, and say the general had sketch. "was to imply vigorous health, heiped him to kill it, he sauntered away. while probably 'Lord Eldon' would al"His favorite corps is the I. L. H., and most have brought one of my brothers he seems quite pained when they miss an lafter me in anxiety and alarm.

hunt for De Wet, and in the course of his | monwealth. In this year a bill was introtravels entered a good many farmhouses duced into Parliament to grant members (the Sussex Company seems to have con-tained a fire lot of fowl looters), but through the post, but it was thrown out never found the "good man" at home. This, he says, was the usual scene:

"Furmhouse of a humble order. A few timid Kafirs loltering around, also a few fowls and slack-looking mongreis. Gentleman in khaki rides, up, and in the door appear two or more round-faced women, wearing headgear of the baby bon-

"G. in K.-Where is your husband? Women.-Niet verstand. "G. in K .- Where is your brother?

"G. in K .- Is he on these kopies, potting

Women.-Niet verstand. "G. in K.-How many Boers have been

Women.-Niet verstand. "G. In K. (after more interrogatories and more 'Niet verstands')-Oh, hang it,

good-by. Women (in distance)-Niet verstand. "Verily, the 'niet verstand' or 'no savvee game is a great one out here.
"Mr. Ross gained promotion to Corporal in a gallast attempt to save Lieuenant Stanley, the Semerset cricketer, who had been badly wounded in an affair

from which it is surprising that any of the little party of Yeomen came out alive.

"Sir Elliot Lees, the other man, and

nyself were the only ones let in the

onga then, so the captain, taking hold of poor Stanley by his shoulders, and I his legs, we started to carry him off. As we picked him up, he institled, in a voice like that of a drunken man, on somebody oringing his carbine and hat, 'Where's my rifle an' hat? Rifle an' hat?" man took them and gat. I heard this later. You have no idea what a weight a mortally wounded man is, and the poor fellow was in reality rather lightly built.

a mortally wounded man is, and the poor fellow was in reality rather lightly built. On we went, stumbling over stones, a ditch, and into little chasms in the earth. Ones or twice he mumbled, 'Not so fast, not so fast.' The builets buzzed, whistled, and himmed by us, missing us by yards, feet, and inches, knocking up the dust and himmed by us, missing us by yards, feet, and inches, knocking up the dust and hittling the stones and thorn bushes we staggered through. We, of course, presented a big mark for the Boers, and were not under any covering fire, so far as I am aware. The captain, who is grit all through, soon found it impossible to carry the poor fellow by the shoulders, the weight being too much for him, so I offered, and we changed piaces Sir Elliot taking his legs, and on we went, pausing, exhausted, perspiring, and breathless, now and again, for a rest.

"At last, turning to our left, we reached a little bit of cover, thanks to a friendly rise in the ground, and, falling into a kind of deep rut, with Stanley's body on top of me, I waited while the captain went to see if he could get any assistance. Presently he returned with a Somerset man, and a minute or so later a Fife fellow, a medical student, came up. The former and I then got him on a little further. After a few minutes deliberation, the captain said, reluctantly. We must leave him. We all three asked permission to stay, to which Sir Elliot replied, I don't want to lose an affect and three men. Come away, men? We then moved the poor fellow into a cutting about two feet deep and three feet wide, and arranged a haversack under his head. As we intered, each unwilling to leave him first, Sir Elliot thundered at its to come on, maying, I don't kinder his head. As we intered, each unwilling to leave him first, Sir Elliot thundered at its to come on, maying, I don't kinder wan order lift you've sworn at him. Then reductantly we set off in single file."—

# FRANKING IN ENGLAND.

Peculiarities of the System Which Has Been Abolished.

British Members of Parliament Nov Compelled to Pay Postage on All Mail Matter-Some Abuses Which Brought About the Law's Repeal

Among the numerous privileges which ensidered that the right of members of Parliament to pass their letters free through the post had disappeared past the ssibility of recall, and the proposal at the close of last session to resuscitate the right of "franking" must have come to many people with a shock of surprise. The suggestion recalls to mind all the vaga ries of the franking system, which, like other anomalies of our English constitution, awake in our minds today a sort of affectionate amusement, rather than any fervor of indignation. Up to the time of the abolition of the

rivilege it was part of the amiable du ties of a courteous member of Parlia-ment to pass his friends' letters as well as his own through the post gratis. When he paid visits to the houses of his rela-tives and acquaintances he left a number of franks behind, to be used as required His generosity cost him nothing, and the prices charged for postage on cross routes were so high that the saving to his friends' pockets was considerable. Ofdiary franks were valid for one or two sunces only, but certain more highly privileged ones carried no limitation as to weight, and the story is told of a piano est shoe manufacturers in the country traveling free as a letter under a franking at that time, and Milford was their headsignature. But, of course, as a rule it was chiefly the well-to-do classes who could count members of Parliament among their friends, and the postal tax was rigidly exacted from those letter receivers who could least afford it. Poor and St. Louis was considered simply a distribution control for the relatives. people who wanted news of their relatives at less cost than the legitimate rates sometimes resorted to forgivable trickery. I went West and established a branch in Rowland Hill, in his pamphlet urging the the city of St. Louis. St. Louis at that came across a woman in the act of re-fusing a letter from her son, on the ground that she had no shilling to came across a woman in the act of fe-fusing a letter from her son, on the ground that she had no shilling to pay for it. Colerbige gave her the shilling, but when the letter carrier had gone, the woman told him that the letter was a woman told him that the letter was a woman told him that the letter was a bears the name. He was a Lynn man, as

A more elaborate code of signaling was dopted by Rowland Hill himself. In his ime newspapers were allowed to go free when hearing the name of any member, whether written by himself or not. It whether written by himself or not. It had been intended that, as in the case of letters, the names should be genuine sig-natures in the handwriting of the franker, but be but by degrees-chiefly through the pres-sure exerted by enterprising booksellers and paper distributors upon complaisant politicians—the names on the papers degenerated into a perfectly empty form, till some printers boldly discarded writing, and had the name of a political leader printed on their wrappers. Newspapers virtually all traveled free. The laxity with respect to them must be attributed to the heavy vested interests involved, and is all the more remarkable when it is remebered that in England to forge the frank on a letter was an offence punished with much severity. The Hill family took advantage of the economical form of communication afforded, and when Rowland, ill and out of took a Scotch tour to recruit his health, he arranged to send his family frequent bulletins by means of papers. He took with him a stock of old papers, and the family being strong Radicals, it was settled that a Liberal name should stand for a good and a Conservative for a bad reopinion in the person whose name was relected for the frank, " Sir Francis Burhe says in his autobiographical

ce or twice they have done, owing to a from the formal institution of the postoffice. The act to which the postoffice may be said to owe its existence dates The author shared, of course, in the back to 1657, during the time of the Comby the Lords. On the Restoration a new act, virtually a repetition of that of 1657, ensured the existence of the postoffice, and in the same year members were granted the franking privilege by the Crown. No recognition of the right by Parliament is to be found until an act passed under George III, just over a hundred years later, which was intended to limit the number of franked letters. Up to this time the profits of the postoffice belonged to the Crown, and it was therefore within the province of the Crown to remit the cost of postage to any favored class. But at the time of the act of George III the evenue accruing from the postoffice had een surrendered to the public during the life of the sovereign in exchange for a civil list charged upon the Consolidated Fond The King was no longer compeent to grant any dispensation from the ordinary postage tax, and the matter had o be referred to Parliament. The newtters allowed to pass, which had been fixed at two sunces; while the old rule that members might frank letters during the Parliamentary session or for forty days before or after was still maintained. The new restrictions were that the whole ddress of every franked letter, and not merely the name of the franking memer, was now to be in his own handwrit-ng, and that in the case of letters desatched to members, only those were to e passed free which were directed to his sual residence or to the place at which was actually staying, or to either of

the houses of Parliament. The act was intended to check the current abuses, but far from limiting the number of free letters, it seems to have greatly stimulated the use of franks by emoving any existing scruples as to the egality and giving them a recognized lace on the statute book. A careful exmination of letters passing through the ndon office showed that in the eight ears after the passing of the act the an mal number of franks had been nearly ing 34,734, and in 1772 the number reaching 65.653. The regulations as to the addresses at which members were entitled to receive ree correspondence led to constant and itter disputes, for the officials of the postoffice made a practice of charging letter if they did not believe the member o whom it was addressed to be at the place to which it was directed, and much wrangling was the inevitable conse-quence. In Ireland a special difficulty lay in the widesprend use of forged franks-a practice which in England, for letters, if not for newspapers, was a penal offence. An inspector of franks was sent to Ireland to investigate the state of matters on the cross and by-road posts, and he eported the number of forgeries to constitute a very high percentage in some towns the number of counterfeit signs tures being actually greater than the gen tine ones. The Secretary of the Postoff in Ireland gives a striking picture of th prevalence of the abuse. He declared it as his belief that there were "very few merchants or attorneys' clerks throughout the Kingdom who do not counterfel the name of one member or another. If I classed with them almost every little

pretty miss capable of joining her letter should not exaggerate the abu A later act provided that each franked better must bear on the outside in the member's writing the date in full, and that it must be posed on that date. The intention of this act was evaded by members sending to their friends franks that frauds was made by an act that reduce the maximum weight of a free letter to one ounce, and provided that the member franking it must be within twenty miles of the town from which it was posted either the same or the previous day. Fur ther, no member was to be entitled o ne day to send more than ten, or receive more than fifteen free letters. In spite of the attempted limitations, how ever, the abuses of franking continued almost unchecked until in 1840, when on the introduction of p-nny postage, the whole system was ended instead of mended, and franking disappeared. The attention of the supporters of the recent proposal t restore is some measure the old and oft abused privilege may be drawn to the words of Sir Heneage Finch, who in 1660, when Parliament was asked to sanction the practice of franking, declared the proposal to be "a poor, men and below the honor of the House."-Lon-

#### SHOEMAKING YEARS AGO.

Ex-Gov. Clattin, of Massachusetts Describes the Pioncer Industry. About the year 1830 I started working in the shoe factories of Milford. I was then eleven years old. Associated in busi-ness in the same town was Horace Claffin, my brother. There were also General Underwood, Rufus Chapin, and Mr. Brag. These men were beyond a doubt the larg-

mere signal to tell her that her son was was also his partner. There were as well; it was never meant to be taken in, many shoe centres as there are today. nd as a matter of fact consisted of noth- If my recollection serves me right, L. L. and as a matter of fact consisted of nota-ing but a blank sheet addressed to her-agent in Louisville, which practically controlled the trade in the South. Cincinnaself. In his ti also had one or two of these distributing agents, and at that time nothing was heard of the city of Chicago. There were no manufacturers South. New Orleans, Natchez, Charleston, and all other large cities in that portion of the country were supplied by Massachusetts. Philadelphia distributed its quota of women's fine shoes. Strangely enough there were two cut, situated in the town of Milford. They

were practically our only competitors.

During this period there was no such thing ever heard of as shoe salesmen. If a man wanted to buy shoes it necessary that he should go into the market. This dealers did twice a year, Lynn, of course, was the fountainhead, along with Danvers, Haverhill, Abington, and Bridgewater. The wholesale houses made their headquarters at Boston, and, like the retail merchants, they traveled through each of these sections in order to buy goods. The great stamp ing ground of shoemen in the city at that time was Wilde's Hotel, on Eim Street. A noticeable character during these times was Mr. Holbrook, from whom the town of Holbrook was named. He used to drive in a surrey and a regular dinner suit, with his top hat, and this he continued doing up to the year 1860. E. Curtis was also another of these famous characters.

Our section of the country was devoted to boots. In the year 1847 we built in Hopkinton the largest shop there was at business on for twenty years. Associated with us were the Colemans, Mr. Barker, my brother, and the same character of boots was made in Abingto and Wermouth. Shoes and fine calf boots were made at Natick, and Vice President Henry Wilson was among the prominent Lynn and Haverhill were the home of women's shoes. We had no sew ing machines, no pegging machines, and even pegs themselves were made by hand, for which we had to pay 10 and 15 cents

In the year 1850, the time of the intro duction of the pegging machine, we had our first strike. The men in the shop rebelled against the introduction of machinery into the works. This was the only labor trouble we had during our whole business cureer.

The industry of Massachusetts received the most honorable men who ever entered the trade was the firm of Batcheller Brothers, from which the present firm de-scended. They controlled the great trade of the South, and it was reported that at his coat pocket, where he carried it for the outbreak of the war they held \$400,000 in paper from people in the Southern territory. They were crippled for the time being, but after a short period they re covered all they had lost, and the present firm is the firm of these Batchelle are among the ploneers in Massachusetta. Perhaps the largest wholesale firm during that time was the firm of Mitchell & Bryago, 'tall' were very successful, and haps did as large a business as anyone, et, do you?" and they did much to raise the condition

of the industry in Massachusetts. During the pioneer days all of the shoes were not made under one roof. It was usually a case of the manufacturer him-It was self cutting out the uppers and bottom stock, but most of the men had little shops built adjoining their own homes. They made the work in dozen pairs and then brought them to the original shop, where the finishing was done. The intro-duction of the pegging machine perhaps do with amalgamating the nterests of the shoemakers and bringing them under one roof than anything else. This naturally did away with a great portion of the work which had formerly

been done outside.

The sewing machine was another invention which tended to the same result, so that by the introduction of the McKay machine in 1962 we had the foundation of the present system of shoe industries. That we have made wonderful progress in shoemaking can easily be seen by everyone, and that we are better capable of handling the trade at the present time than we were formerly is also noticeable. Our increase has been greater than the natural increase of the population. Massa chusetts owes this to the character of its semakers, and to the men who have always been at the helm. The West has ndoubtedly improved, but there is no State within the Union which will ever be able to wrest from Massachusetts the name of the most advanced of all the States in the shoemaking industry.—Shoe and Leather Reporter.

### A Fancy College Crow.

(From the Albany Journal.)
There is a gentleman who is beyond his sel-There is a gentleman who is beyond his school days who is interested in chickens. Recently he learned that there was an institution of learning where a course of instruction was given in chick-malogy and dischology, or in those branches designated by schentine names. The fowl funcier thought the matter over-was he too old? He decided to consult his friends.

"I don't mind the schoolroom," he said with a frown, "but it is the thought of the other class meetings. Just as like as not we will all wear goose quills in our hats and have a college yell samething like this: "Quack, quack, quack! Cock-a-doodle-do! Rousters, broilers, 1992!"

# TALES TOLD ABOUT MONEY

Bankers Relate Quaint Experiences With Odd Customers.

incidents With Borrowers That Are Both Comical and Tragic-How Lost Money Was Once Secured. The \$900 Mistake of a Cashler.

"One of the best bank stories I ever card or read," said Charles L. Farrell, Assistant Cashler of the Capital National "was related by Gov. J. Hoge Ty-Virginia, in an address of welome made to the American Bankers' Asocciation in annual convention at Rich-nond, Va., October 2, 1900. As I remember it the story went about like this: Soon after the war, when banking rates, or discount rates, were high, an old coun-try friend in one of the southwest coun-ties, a farmer, went to the bank to secure s loan of \$1,000 for five years. Of course, this made the 'man behind the grating' pen his eyes and look at him with wonder shment, and the farmer told that they could not make provision for such a loan as that unless they had the most satisfactory collateral that could be obtained.

"The old fellow asked, 'Collot what?" Collateral, the banker answered.
'Well, what is that?' the farmer

"The banker went on to describe the stocks and bonds and securities that are meant by the term collateral. The old farmer said, 'Well, if I had those things wouldn't want any money. They are

better than money.'
"'Well,' said the banker, 'you can't get the money unless you succeed in getting some of those collaterals, and then we might discount your note."

"Well, the farmer succeded in getting some collateral and in getting some per-sonal endorsements, and also in getting his own name upon the paper and his wife's as well, and obtained mortgages on everything be had. He came and dumped his collateral down on the banker's desk. They were satisfactory, and the cushler made out his note for him to sign it, which the farmer did. After signing the note be passed it over. Then cashier counted him out \$287 59. The

old farmer ejaculated, 'Come on.'
"'No, sir,' said the cashier, 'that is all ou can get on a note of \$1,000 for five ars at our present rate of discount."
"Dis what?" said the farmer.

'Discount,' said the cashier; 'that is all you can get." What do you mean,' said the farmer.

'Why,' said the cashier, 'we take off discount for the first four months and the next four months, and so on, and then, at the end of five years your note

will only make \$287.52." " I am giad I did not ask you to lend be that money for ten years,' ejaculated the farmer, 'or you would have had me in debt and I would have to pay you son :thing for asking you to lend it to me."

W. W. Wcollen, of the banking firm of
Woollen, Webb & Co., was the hero of an incident that involved considerable de-tective acumen. One evening in an effort to obtain a "trial balance," Mr. Wooller ound, to his dismay, that his cash was short \$1,000. Try as he would, he could

not locate the missing amount.

The next day he instituted a rigid enquiry among the other persons about the bank in the vain hope that he might ob-tain some clue that would aid him in locating the money. The messenger boy spoke up promptly when he heard of the loss and said: "I noticed yesterday, when you were cashing a check for a fellow that looked like he might be a farmer. that he had a man with him, and when he was counting over his money he chuckled and nudged his companion and then both of them chuckled a good deal."

With this siender clue Mr. Woollen began his investigation. He went carefully over the checks he had cashed the previous day and came across one that he believed to have been the one in question. Going to the man who drew the check, he asked for the residence of the payer.
When he secured this information Mr. that time in the country, and carried the Woollen hired a buggy and drove out into the country several miles to the farmer's place. Arrived at his house, Mr. Woollen approached the farmer and said abruptly: I came after that thousand-dollar bill paid you by mistake the other day." The man turned red and stammered comething about not having any thous and-dollar bill, but Mr. Woollen pressed him so closely that he finally put his hand

into his trousers' pocket and drew out the Another story in which a thousand-dolar bill figures prominenty involves a citizen whose sensitiveness will not permit the use of his name. This man was acting as a trustee during the panic of 1893 nd had the trust fund on deposit in the Indianapolis National Bank. two before the bank closed its doors the man received a warning that the institution was doomed. He accordingly hasan awful setback during the war. One of tened over to the bank and drew out the money which he held in trust for anoth-

When he received the money, which was in bills, he rolled it up and placed it in several days. One day Harry C. Adams came into his place of business and said: Have you such a thing as a hundreddollar bill about you? I need one right away." The man reached in his pock-et, pulled out the roll of bills and taking of the top bill handed it to Mr. Mams. "Great Heavens" ejaculated Mr. Adams -when he observed that the bill called Seth Bryant died about two years for \$1.00, "you surely don't carry thous-lasty were very successful, and per-and-dollar bills around loose in your pock-

I have no thousand-dollar bill, retorted the man. "I'd like to know what you call that,"

said Mr. Adams, holding up the as to show plainly the figures 1,000 on its The scene changes to the Indianapolis National Bank. The man enters carry-ing the thousand-dollar bill in his hand,

"Did you find any shortage in your cash the other day?" he asked of Cashier "Did I?" exciaimed Mr. Rexford, "Well, I should say I did. I was short \$900, and

I have lost hours of sleep ever since try-ing to locate that shortage." "Well, you can take a little rest now," answered the man, "for here is your money. You paid me a \$1,000 bill for a

3100 bill the other day."
"The cashier suddenly found that he had business cutside, and it is said that money was put into circulation at a neighboring refreshment stand, sithough this part of the story is not clearly sub-

When I used to work in the Meriden Vational Bank, which was afterward absorbed by the Merchants'," said another bank official, "I relieved Albert Kopp, the paying teller, one day during noon hour while he went to much. An old farmer hundred and some-odd dollars that he and received in payment for son he had brought to the city and sold. I looked at the name of the payee written on the face of the check and then at the nan before me and said; 'I don't know you, my friend; you will have to be idenified.' He gave me an innocent stare of surprise, and, reaching into his pocket, said: How much will that cost, mister?"
"Way back in 1856, when the civil war receme tax was still in force," said M. B. Wilson, "A country depositor same into our bank at Sallivan and asked me for our bank at Sullivan and asked me for some stamps, saying he expected to have use for them pretty soon. 'What denomination' I asked. 'Wal,' he replied, 'I am a Mathodist now, but my family's all Eaptists.' He had evidently never heard the word denomination used in any connection other than religious."—Indianapolis Journal.